

ABSTRACT

LATERAL MANEUVERABILITY MAP FOR A VEHICLE AND METHOD OF OBTAINING IT

This lateral maneuverability map shows the area of movement of a vehicle with the contours of the regions of complete freedom of lateral movement. It is generated from a distance map listing the distances of the points of its regions that can be negotiated by the vehicle to the regions to be circumvented. It may show the area of movement of the vehicle in the form of a subdivision into at least three types of region, namely a first type corresponding to regions to be circumvented, a second type corresponding to bands surrounding the regions to be circumvented and having the width of a maneuvering space arbitrarily considered as necessary for free lateral movement of the vehicle, and a third type of region corresponding to regions of free lateral movement. In the case of an aircraft, said map may be superimposed on the map of a TAWS system in order to specify to the pilot if he has complete freedom of lateral movement or not.

Figure 7